

## ABSTRACT

The aim of the invention is to optimise cooling electric machines. As a result, a coolant channel (7) is disposed around the cylindrically-shaped magnet arrangement of the electric machine. Said coolant channel can evenly distribute a coolant in the peripheral direction of the cylindrically-shaped magnet arrangement. The flow of coolant is then guided in an axial direction over the magnet arrangement (2), thereby enabling the electric machine to be evenly cooled on the entire periphery thereof.